

# 36 Lecture - PHY301

## Important Mcqs

**Which of the following is the configuration of a full wave rectifier?**

- a) Center-tap
- b) Bridge
- c) Half-wave
- d) None of the above

**Answer: b) Bridge**

**How many diodes are used in a full wave rectifier?**

- a) 1
- b) 2
- c) 3
- d) 4

**Answer: d) 4**

**What is the purpose of the filter capacitor in a full wave rectifier circuit?**

- a) To increase the ripple in the output
- b) To reduce the ripple in the output
- c) To decrease the output voltage
- d) None of the above

**Answer: b) To reduce the ripple in the output**

**What is the ripple frequency in a full wave rectifier?**

- a) Half the frequency of the AC input
- b) Equal to the frequency of the AC input

- c) Double the frequency of the AC input
- d) None of the above

**Answer: c) Double the frequency of the AC input**

**What is the efficiency of a full wave rectifier compared to that of a half wave rectifier?**

- a) Higher
- b) Lower
- c) Same
- d) Cannot be determined

**Answer: a) Higher**

**What is the output voltage of a full wave rectifier compared to that of a half wave rectifier?**

- a) Higher
- b) Lower
- c) Same
- d) Cannot be determined

**Answer: a) Higher**

**What is the purpose of the center-tapped transformer in a full wave rectifier circuit?**

- a) To provide DC voltage
- b) To reduce the ripple in the output
- c) To double the output voltage
- d) None of the above

**Answer: d) None of the above**

**What is the peak inverse voltage rating required for the diodes in a full wave rectifier circuit?**

- a) Equal to the peak voltage of the AC input
- b) Twice the peak voltage of the AC input
- c) Half the peak voltage of the AC input

d) None of the above

**Answer: b) Twice the peak voltage of the AC input**

**What is the type of output waveform produced by a full wave rectifier?**

a) Sine wave

b) Square wave

c) Triangular wave

d) None of the above

**Answer: d) None of the above (It is a pulsating DC waveform)**

**What is the range of the output voltage of a full wave rectifier circuit?**

a) 0 to the peak voltage of the AC input

b) 0 to twice the peak voltage of the AC input

c) Equal to the RMS voltage of the AC input

**d) None of the above**

**Answer: b) 0 to twice the peak voltage of the AC input**